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L1	9376	instant with messag$5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L2	696649	voice talk conferenc$5 voip phone telephone	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L3	7889	1 and 2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L4	12147813	@ad<"20020103"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L5	2429	4 and 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:54
L6	60446	"international business machines". as.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
L7	2270	5 not 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
L8	6065	709/204-207.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/03/16 17:55
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141   iMobile: a proxy-based platform for mobile services

Chung-Hwa Herman Rao, Yih-Fam Robin Chen, Di-Fa Chang, Ming-Feng Chen

July 2001   **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM Press

Full text available: 📄 pdf(829.58 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

iMobile is a proxy-based platform that addresses the research issues in building mobile services. iMobile acts as a massage gateway that allows mobile devices using various protocols on different access networks to relay messages to each other. It also allows these clients to access internet services, corporate databases, and to control various networked devices. iMobile implements three key abstractions: *devlet*, *infolet*, and *applet*. A devlet is a driver attached to ...

Keywords: CDPD, GSM, IMAP, POP3, SMS, TCP/IP, TDMA, WAP, X10, home network, instant messaging, mobile computing, proxy, telnet, wireless

142   Comparing the QoS of Internet audio mechanisms via formal methods

Alessandro Aldini, Marco Bernardo, Roberto Gorrieri, Marco Roccetti

January 2001 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 11 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(256.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

We compute and compare the quality of service (QoS) of three soft real-time applications for audio transmissions over the Internet. The main metric we want to capture is the average packet audio playout delay vs. the packet loss rate as perceived by users. Other metrics we take into account are the packet loss rate vs. the receiving buffer capacity, the lateness of discarded packets vs. average packet audio playout delay, and the waiting time in the receiver buffer for the played packets vs ...

Keywords: Internet audio mechanisms, case studies, discrete event simulation, quality of service, software tools, stochastic process algebras

143   Highly efficient voice-data integration over medium and high capacity wireless TDMA channels

P. Koutsakis, M. Paterakis

January 2001 **Wireless Networks**, Volume 7 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(176.79 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: MAC protocol, QoS, voice-data integration

144 <u>Columns: Risks to the public in computers and related systems</u>

Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(3.24 MB)   Additional Information: <u>full citation</u>

145 <u>Towards junking the PBX: deploying IP telephony</u>

Wenyu Jiang, Jonathan Lennox, Henning Schulzrinne, Kundan Singh
January 2001 **Proceedings of the 11th international workshop on Network and
operating systems support for digital audio and video**
Publisher: ACM Press

Full text available: pdf(312.40 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index
terms</u>

We describe the architecture and implementation of our Internet teleph ony test-bed
intended to replace the departmental PBX (telephone switch). It interworks with the
traditional telephone networks via a PSTN/IP gateway. It also serves as a corporate or
campus infrastructure for existing and future services like web, email, video and
streaming media. Initially intended for a few users, it will eventually replace the plain old
telephones from our offices, due to the cost benefit and new ...

Keywords: PSTN/IP interoperability, SIP, VoIP test-bed, internet telephony deployment

146 <u>Resource allocation and management in DiffServ networks for IP telephony</u>

Maarten Büchli, Danny De Vleeschauwer, Jan Janssen, Annelies Van Moffaert, Guido H. Petit
January 2001 **Proceedings of the 11th international workshop on Network and
operating systems support for digital audio and video**
Publisher: ACM Press
Full text available: pdf(251.15 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper discusses resource allocation and management in Differentia ted Services
(DiffServ) networks, particularly in the context of IP telephony. We assume that each
node uses Weighted Fair Queuing (WFQ) schedulers in order to provide Quality of Service
(QoS) to aggregates of traffic. All voice traffic destined for a certain output interface is
aggregated into a single queue. When a voice flow traverses a node, its packets are
placed in this queue; which is drained at a certain rate, de ...

147 <u>Providing presence cues to telephone users</u>

Allen E. Milewski, Thomas M. Smith
December 2000 **Proceedings of the 2000 ACM conference on Computer supported
cooperative work**
Publisher: ACM Press

Full text available: pdf(254.69 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index
terms</u>

A significant problem with telephone communication is that callers do not have enough
awareness about the Personal Presence of people they want to call. The result can be
unwanted, interrupting calls. Thelive addressbookis an application that helps users make
more informed telephone calls and teleconferences, from anywhere, via their wireless PDA
or desktop browser. Unlike other network-based address books, which maintain static
information, the live addressbook can displa ...

Keywords: awareness, mobility, presence, telecommunication

148 Interaction and outeraction: instant messaging in action

Bonnie A. Nardi, Steve Whittaker, Erin Bradner

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: pdf(163.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

We discuss findings from an ethnographic study of instant messaging (IM) in the workplace and its implications for media theory. We describe how instant messaging supports a variety of informal communication tasks. We document the affordances of IM that support flexible, expressive communication. We describe some unexpected uses of IM that highlight aspects of communication which are not part of current media theorizing. They pertain to communicative processes people use to connect with eac ...

Keywords: computer-mediated communication, informal communication, instant messaging, media theory, outeraction

149 Interpersonal trust and common ground in electronically mediated communication

Steve Greenspan, David Goldberg, David Weimer, Andrea Basso

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available: pdf(222.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

Communication and commerce by web or phone creates benefits and challenges for both buyer and seller. Websites provide convenience and visualization; telephones provide voice and real-time interaction. To combine key elements of these experiences, we developed PhoneChannel. Using PhoneChannel, a PC user while talking on the telephone can display visuals on the other person's television. How do these different media affect the consumer experience? In a recent laboratory study, prospective ho ...

Keywords: WWW, consumers, conversation, telephony, television

150 Out of thin air

Aaron Weiss

December 2000 **netWorker**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(73.04 KB)
html(18.26 KB)   Additional Information: full citation, index terms

151 Design collaboration and mediating technologies: Teaming together apart: emergent patterns of media use in collaboration at a distance

Angela Graveline, Cheryl Geisler, Michael Danchak

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork**

Publisher: IEEE Educational Activities Department

Full text available: pdf(932.67 KB)   Additional Information: full citation, abstract, references

In this paper, we examine the emergent patterns of media use in collaboration at a

distance. Two teams working at a distance to complete a software specifications project were observed using a mix of email, web archiving, synchronous chat, and applications sharing. Extending Media Richness Theory, we describe the multiplicity of communication situations these teams faced in terms of group management, interpersonal work, task work, and tools/media issues. We suggest that despite differences betwe ...

152 The Next Bang: The Explosive Combination of Embedded Linux, XML and Instant Messaging
Doc Searls
September 2000 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: 📄 html(34.52 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

153 W-mail: an electronic mail system for wearable computing environments
Hirotaka Ueda, Masahiko Tsukamoto, Shojiro Nishio
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: 📄 pdf(1.99 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper describes an e-mail system for wearable computing environments. In this system, we extend the conventional mail format and the server/client(browser) architecture by considering the specific features of wearable computing environments, i.e., full time operation, hands-free use of computer, and close relationship to our daily life. A mail author can specify the behavior of his/her mail by embedding several useful commands in the mail. A user can specify in the mail various conditi ...

Keywords: e-mail, location dependent service, wearable computing

154 Delay jitter performance of video traffic in a cellular wireless ATM network
T. C. Wong, J. W. Mark, K. C. Chua
August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(723.47 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The delay jitter performance of video traffic, modeled using a Markov Modulated Poisson Process (MMPP), in a cellular wireless ATM network is analyzed. The uplink MAC (Medium Access Control) protocol is implemented by an enhanced TDMA/DR (Time Division Multiple Access with Dynamic Reservation) MAC protocol. Voice, compressed video and data are used as test traffic. The delay jitter (or cell delay variation) of MMPP video is evaluated using approximate analysis and computer simulation, while ...

155 Application-layer mobility using SIP
Henning Schulzrinne, Elin Wedlund
July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(1.34 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

156 Linux for Suits: The Message

Doc Searls

July 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(8.65 KB) Additional Information: <u>full citation</u>, <u>index terms</u>

157 Talking in circles: designing a spatially-grounded audioconferencing environment

Roy Rodenstein, Judith S. Donath

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents *Talking in Circles*, a multimodal audioconferencing environment whose novel design emphasizes spatial grounding with the aim of supporting naturalistic group interaction behaviors. Participants communicate primarily by speech and are represented as colored circles in a two-dimensional space. Behaviors such as subgroup conversations and social navigation are supported through circle mobility as mediated by the environment and the crowd and distance-based attenuation o ...

Keywords: audio, computer-mediated communication, drawing, gesture, interaction design, media space, multicast, multimodal interfaces, representation, social navigation, speech

158 Virtual private networks in the 21st century

Dennis Fowler

December 1999 **netWorker**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(369.58 KB)
html(6.75 KB) Additional Information: <u>full citation</u>, <u>index terms</u>

159 Strategic outlook: from ears to eyes

Gert Staal

November 1999 **interactions**, Volume 6 Issue 6

Publisher: ACM Press

Full text available: pdf(686.42 KB)
html(12.60 KB) Additional Information: <u>full citation</u>, <u>index terms</u>

160 The mobile people architecture

Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker

July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(946.60 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

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